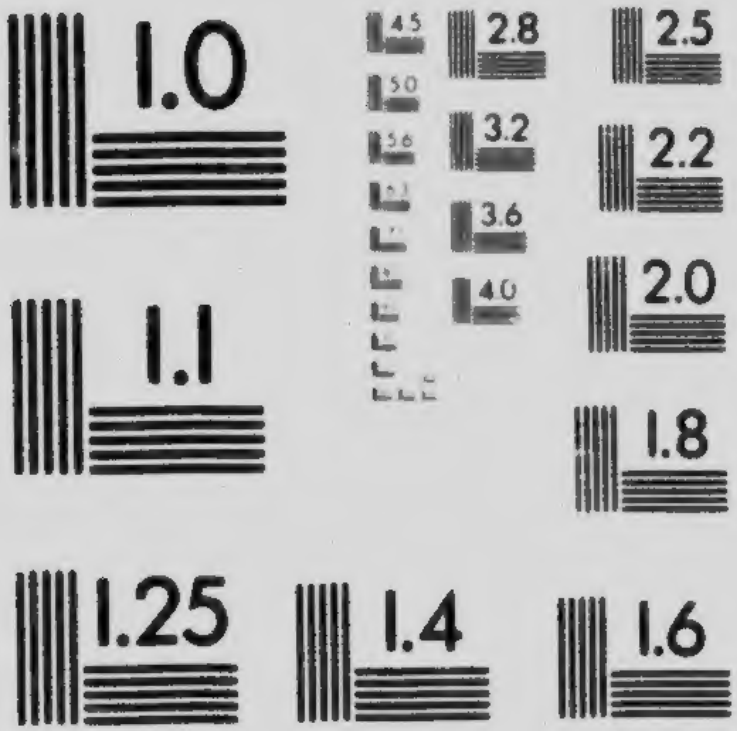
MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



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LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

BULLETIN No. 280

Temperance Beverages or Soft Drinks

57371—1

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TEMPERANCE BEVERAGES OR SOFT DRINKS

OTTAWA, February 26, 1914.

WM. HIMSWORTH, Esq.,
Deputy Minister Inland Revenue.

SIR,—I beg to hand you herewith a report upon the examination of 150 samples sold as soft drinks (non-alcoholic or temperance beverages) during the months of September and October last. The specific names under which these were offered for sale are as follows:—

	Samples.
Ginger Ale	45
Ginger Beer	14
Lemon Sour	20
Cream Soda	23
Iron Brew	7
Champagne Cider	13
Strawberry Soda	6
Sarsaparilla	5
Noxi-Cola	1
Cherry Cider	1
Raspberry	1
Wineo	1
Lime Juice and Soda	1
Orange Phosphate	1
Grape Smash	1
Root Beer	1
Raspberryade	1
Lagerine	1
Table Waters	7
Total	150

Three samples were lost by breakage in carriage.

Of the seven samples classed as Table Waters, five (5) are sold as Soda Water, and these contain total dissolved solids as follows:—

Soda Water,	No. 60051,	solids per cent.	.. ..	0·060
"	" 54417	"	.. ..	0·020
"	" 5[illegible].27	"	.. ..	0·020
"	" 48948	"	.. ..	0·140
"	" 49967	"	.. ..	0·060

I am not aware that any authoritative definition of the term Soda Water exists. Doubtless the artificial waters so-called are intended to be taken as imitations of the naturally effervescent alkaline waters for which Ems, Vichy, and other places are celebrated. The Vichy Water contains about 0·700 per cent solids, chiefly bi-carbonate of soda. It is evident that the above samples bear no sort of resemblance to the Vichy Water: and the amount of contained Soda is so small that they would be much more correctly described as Carbonated Water, as their impregnation with carbonic acid gas under pressure is their only special characteristic.

The remaining two samples are ordinary table waters of good quality.

Of the great majority of these samples of soft drinks it may be said that they are essentially solutions of sugar in varying amounts (from 1 to 10 per cent) flavoured with various essences or fruit flavours (mainly artificial) and impregnated with carbon dioxide (carbonic acid gas) under pressure.

All attempts to find a specific character for Ginger Ale, Ginger Beer, Lemon Sour, &c., from the numerical results of analysis, fails utterly. These beverages are evidently prepared according to no generally accepted formula, but depend for their character upon the fancy of the manufacturer. It cannot be said that they are harmful; and so long as they meet a popular demand for a sweetened effervescent drink, no objection to them can be taken.

The presence of salicylic acid, to prevent fermentation of the sugar, is noted in thirteen (13) samples; but the amount is not excessive in any case. Saccharin (used as a partial substitute for sugar) is found in thirty-four (34) samples. Objection has been taken to this article as a sweetener by the United States of America (*see* Food Inspection Decision No. 142, of March, 1912), but the evidence of its harmfulness does not appear to be convincing. Under Food Inspection Decision No. 146, of July, 1912, the United States of America permits its presence in certain classes of food, but requires a declaration of the presence of Saccharin on the label. This precaution, and the restriction of its amount to such a quantity as shall prevent the ingestion of more than 0·30 gramme daily [illegible] that seems to be necessary in the light of our present knowledge of the physiological effects of saccharin. The careful investigation made by the Referee Board of the U.S.A., and reported Jan. 13, 1912, revealed that amounts of Saccharin up to 0·[illegible] gramme daily, had no deleterious or poisonous action, and were not injurious to health.

Of course, Saccharin may be used to take the place of sugar in a food in which sugar is a necessary ingredient. But I am not aware that any legal definitions of these temperance drinks prescribe sugar as a necessary ingredient, or that the public desires anything more than sweetness without regard to the sweetening material, so long as this is harmless to health.

It would, however, seem proper to require that whenever a new article is used to effect a result which has long been associated with the presence of sugar, the fact that such substitution has been made should be declared on the label. The words 'Sweetened (wholly or partially) with Saccharin' should, I think, appear upon these labels, when Saccharin is present.

Alcohol, in more than traces, is absent from all but five samples; and in only three of these does it exceed two (2) per cent by volume, the legal limit for non-alcoholic beverages. (G. 947).

Samples sold under the same name have been put together in subsidiary tables, under the captions 'Ginger Ale, Ginger Beer, Lemon Sour, &c.;' but a study of the articles so named fails to reveal any such homogenuity among those classed together as could warrant a definition of the classes in any but the most general way.

I beg to recommend publication of this report as Bulletin No. 280.

I have the honour to be, sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.
DISTRICT OF NOVA SCOTIA—							
13.							
Oct. 13	Cream Soda..	54316	Burns Grocery, Yarmouth, N.S.	3 bots.	20	J. Pink & Co., Yarmouth, N.S.	Mfrs .....
" 13	Jersey Cream	54317	" "	3 "	20	J. W. Grant & Co., Yarmouth, N.S.	" .....
" 24	Ginger Ale .	54318	F. J. Quinn, Halifax, N.S	3 "	20	Vendor	.....
" 24	Jersey Cream	54319	Whelan & Ferguson, Halifax, N.S.	3 "	20	Vendors	.....
" 24	Strawberry Soda.	54320	Jas. Rowe, Halifax, N.S..	3 "	20	Vendor.....	.....
" 24	Grape Smash..	54321	W. H. Donovan, Halifax, N.S.	3 "	20	"	.....
" 27	Lemon Sour	54322	Biglow & Hood, Truro, N.S.	3 "	20	"	.....
" 27	"	54323	V. Pitkavitch, Truro, N.S	3 "	30	F. Drak, New Glasgow, N.S	Mfr .....
" 28	Apple Tart...	54324	H. C. Burns, Lunenburg, N.S.	3 "	25	Pearn & Boulton, Sussex, N.B.	Mfrs .....
" 28	Wineo	54325	A. Sodero, Lunenburg, N.S.	3 "	31	Kempton Bros., Milton, N.S.	" .....
DISTRICT OF NEW BRUNSWICK—							
Sept. 24	Lemon Soda..	50367	Ready's Breweries, Ltd., St. John, N.B.	3 bots.	20	Vendors	.....
" 24	Ginger Ale...	50368	" "	3 "	20	"	.....
" 24	Sarsaparilla...	50369	" "	3 "	20	"	.....
" 29	Ginger Ale. .	50370	W. A. Simonds, St. John, N.B.	3 "	24	Sussex Beverage Co., Sussex, N.B	.....
Oct. 3	Iron Brew....	50371	W. B. Daley St. John, N.B.	3 "	15	Vendor	.....
" 8	Strawberry	50372	F. H. Tyrrell, St. Stephen, N.B	3 "	15	"	.....
" 14	Jersey Creme.	50373	A. H. Wood, Fredericton, N.B.	3 "	[illegible]	"	.....
" 21	Iron Brew....	50374	Sussex Mineral Springs, Ltd., Sussex, N.B.	3 "	60	Vendors	.....
" 22	Ginger Ale...	50375	Havelock's Mineral Springs Co., Moncton, N.B.	3 "	Nil.	"	.....
" 23	Lime Juice Soda.	50376	Charles Cassidy, Chatham, N.B.	3 "	45	Vendor	.....

SOFT DRINKS.

Inspector's Report. (Do not use expression of opinion.)	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
E. J. WAUGH, INSPECTOR.												
	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.					
.....	9·91	5·00	4·10	9·10	0·81	0·090	0·20	None.	None.	.....	54316	
.....	10·10	7·88	2·00	9·88	0·22	0·262	0·33	"	"	.....	54317	
.....	6·45	1·38	4·54	5·92	0·53	0·412	0·20	"	"	.....	54318	
.....	7·26	4·24	2·28	6·52	0·74	0·135	0·20	"	"	.....	54319	
.....	11·56	5·04	5·14	10·19	1·37	0·142	0·20	"	"	Artificial flavour.	54320	
.....	9·34	6·48	2·39	8·87	0·47	0·13	0·[illegible]	"	"	.....	54321	
.....	7·4[illegible]	3·45	3·59	7·04	0·40	0·175	0·46	"	"	.....	54322	
.....	3·44	3·10	0·10	3·20	0·24	0·224	0·99	"	Salicylic acid.	.....	54323	v. £118613
.....	14·14	6·88	5·69	12·57	1·57	0·240	0·46	"	"	Artificial flavour.	54324	
.....	10·09	5·25	4·00	9·25	0·84	0·2[illegible]	0·187	"	None.	.....	54325	
J. C. FERGUSON, INSPECTOR.												
.....	8·18	4·42	2·80	7·22	0·96	0·210	0·46	None.	None.	.....	50367	
.....	10·22	3·18	6·22	9·[illegible]	0·82	0·200	0·26	"	"	.....	50368	
.....	10·48	5·50	3·64	9·24	1·24	0·105	0·2[illegible]	"	"	.....	50369	
.....	11·00	3·38	6·93	10·31	0·69	0·210	0·06	Present.	Salicylic acid.	.....	50370	v. £118613 £7 1392
.....	8·45	1·62	5·52	7·14	1·31	0·165	0·26	None.	None.	.....	50371	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*50372	
.....	11·14	6·80	3·04	9·84	1·30	0·173	0·26	None.	None.	.....	50373	
.....	12·64	1·18	9·48	10·66	1·98	0·202	0·20	"	"	.....	50374	
.....	7·12	1·61	5·15	6·76	0·36	0·172	0·26	"	Salicylic acid.	.....	50375	
.....	4·78	4·06	0·60	4·66	0·12	0·280	0·33	"	None.	.....	50376	

* Broken in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF QUEBEC—							
1913.							
Sept. 22	Soft Drinks...	56149	George Jobin, 390 Rue St. Joseph, Quebec.	3 bots.	30	F. A. Fleuet, Quebec.	.....
" 22	" ...	56150	Edouard Boileau, 836 Rue St. Valier, Quebec.	3 " ..	25	Timmons & Son, Quebec.	.....
" 22	" ...	56151	Jos. Vaillancourt, 358 Rue St. Joseph, Quebec.	3 " ..	30	Bedard & Dion, Quebec.	.....
" 23	" ...	56152	G. Pepin, 132 Rue Massue, Quebec.	3 " ..	37	Elzear Fortier, Quebec.	.....
" 23	" ...	56153	" " .	3 " ..	37	Edouard Coulombe, Quebec.	.....
" 23	" ...	56154	" " ..	3 " ..	22	Elzear Fortier & Cie, Quebec.	.....
" 23	" ...	56155	" " ..	3 " .	22	" " ..	.....
" 23	" ...	56156	" " ..	3 " ..	22	" " ..	.....
" 24	" ...	56157	O. Bacon, 28 Rue Hermine, Quebec.	3 " ..	20	F. A. Fleuet, Quebec.	.....
" 24	" ...	56158	" " ..	3 " ..	20	" " ..	.....
DISTRICT OF THREE RIVERS—							
Sept. 19	Ginger Ale ...	59731	A. S. Caisse, Berthierville.	3 bots.	30	J. Christian & Co., Montreal.	.....
" 19	Ginger Beer ..	59732	O. Paquette, Berthierville.	3 " ..	45	" " ..	.....
" 19	Cider	59733	J. A. Laporte, Berthierville.	3 " ..	25	" " ..	.....
" 22	Ginger Ale....	59734	George Gouin, St. Felix de Valois.	3 " ..	15	Vendor.. ...	.....
" 22	Soda Water...	59735	" " ..	3 " ..	15	"	.....
" 22	Ginger Ale....	59736	Oct. Rainville, St. Felix de Valois.	3 " ..	15	Geo. Gouin, St. Felix de Valois.	.....
" 22	Soda Water..	59737	" " ..	3 " ..	15	" " ..	.....
" 22	Ginger Ale....	59738	Ludger Duperrault, St. St. Felix de Valois.	3 " ..	30	.....	Goulet et frere, Montreal.
" 22	Soda Water...	59739	" " ..	3 " ..	30	A. D. Lapierre, Joliette.	.....
" 22	Cider	59751	" " ..	3 " ..	45	" " ..	.....

SOFT DRINKS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BELAND, INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
..	7·23	2·37	4 28	6·65	0·58	0·075	0·07	None.	None.	....	56149	
.....	4·99	3·90	0·52	4·42	0·57	0·247	0·33	Present.	"	.....	56150	
.....	4·68	3 28	1 32	4·60	0·08	0·190	0·20	"	"	.....	56151	
... .	9·60	5·00	3·70	8 70	0·90	0·142	0·20	None.	"	Artificial flavour.	56152	
.....	5 37	4·20	1·02	4·22	0·15	0·202	0·33	"	"	" .	56153	
.....	10·46	3·42	5·92	9·34	1·12	0·045	0·20	"	"	.....	56154	
... ...	7·18	1·44	4·50	5·94	1·24	0·410	0·20	"	"	.....	56155	
.. ...	8·74	2·84	4·11	6·95	1·79	0·120	0·26	"	"	.....	56156	
.....	7·72	2·61	3·95	6·56	1·16	0·105	0·20	"	"	.. ..	56157	
....	7·07	0 88	5·45	6·33	0·74	0·161	0·00	"	"	.....	56158	
DR. V. P. LAVALLEE, INSPECTOR.												
.	7·64	3·28	3·86	7·14	0·50	0·210	0·33	Present.	None.	....	59731	
. .....	6·28	4·18	1·42	5·60	0·68	0·150	0·26	None.	"	Artificial flavour.	59732	
. ....	5·46	2·42	2·25	4·67	0·79	0·502	0·20	"	Salicylic acid.	" ..	59733	
.....	4·58	0·75	3·16	3·91	0·67	0·225	0·20	Present.	None.	.....	59734	
. . . . .	4·89	2·32	2·10	4.42	0·47	0·052	0·46	"	"	.....	59735	
...	4·88	0·93	3·42	4·35	0·55	0·240	0·26	"	"	. .. .	59736	
.....	5·18	1 14	3·37	4·51	0·67	0·060	0·33	None.	"	.....	59737	
. .	3·38	2 70	0·65	3·35	0·03	0·112	0·33	Present.	"	.....	59738	
.....	5·01	0·73	3·61	4·34	0·67	trace	0·46	None.	"	.....	59739	
.. ..	5·16	4 08	0·61	4·69	0·46	0·065	0·60	"	"	Artificial flavour.	59751	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF EASTERN TOWNSHIPS—				
1913.							
Sept. 29	Cream Soda.	1735	J. M. Brunette, Victoriaville	3 bots.	25	Vendors	
" 30	"	1736	J. E. Jeannette, Richmond E.	3 "	25	"	
Oct 2	Ginger Ale	1737	Alp. Moisan, Megantic	3 "	30	"	
3	Lemon Sour	1738	J. H. Bryant, Sherbrooke	3 "		"	
" 3	Raspberry	1739	D. M. McMahon, Sherbrooke.	3 "		"	
" 6	Strawberry	1740	J. H. Poloquin, Coaticooke	3 "	20	"	
" 9	Raspberry	1741	F. B. Perkins, Waterloo	3 "		"	
" 9	Noxi-Kola	1742	" "	3 "		"	
" 9	Champagne Cider.	1743	H Torand, Waterloo	3 "		"	
" 13	"	1744	F. Orsali & Cie, St. Hyacinthe.	3 "	15	"	
			DISTRICT OF MONTREAL—				
Oct. 21	Ginger Ale	58636	D. Legault, 1320 Wellington St., Verdun.	3 bots.	24	J. Christin & Co., Montreal.	
" 21	"	58637	N. Gauthier, 1218 Wellington St., Verdun.	3 "	24	Stewart Bottling Co., Montreal.	
" 21	Strawberry.	58638	O. Montpetit, 1265 Wellington St., Verdun.	3 "	24	J. Christin & Co., Montreal.	
" 31	Ginger Ale	58639	Trudeau Frere, 302 Charlevoix St., Verdun.	3 "	24	Stewart Bottling Co., Montreal.	
" 31	Cream Soda.	58640	Taylor and Peacock, 330 Charlevoix St., Verdun.	3 "	15	Chas. Gurd & Co., Monteal.	
Nov. 4	Lemon Sour	58641	N. Lalonde, 364 Charlevoix St., Verdun.		24	E. F. Kelly, Montreal.	
" 4	Ginger Ale	58642	H. Harel, 361 Charlevoix St., Verdun.		24	Rowan Bros., Montreal.	
" 4	Champagne Cider.	58643	A. Rathé, 555 Grand Trunk St., Verdun.		24	Millars, Montreal	
" 4	Cream Soda	58644	E. Valade, 230 Chateauguay St., Verdun.		21	H. Girouard & Co., Montreal.	
" 4	Champagne Cider.	58645	H. Piché, 628 Centre St., Verdun.		24	La Renna Bottling Co., Montreal.	

SOFT DRINKS.

Results of Analysis.

Inspector's Report (Is not an expression of Opinion).	Grammes per 100 c.c. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
I. C. ROULEAU, INSPECTOR.												
	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.					
	9·62	1·37	7·04	8·41	1·21	0·052	0·33	None	None		1735	
	7·18	0·26	6·60	6·86	0·32	0·015	0·20	"	"	.....	1736	
	8·25	0·42	6·72	7·14	1·09	0·075	0·33	"	"		1737	
	9·58	4·37	4·15	8·52	1·06	0·224	0·40	"	Salicylic Acid		1738	
	7·89	3·25	3·64	6·89	1·00	0·33	0·150	Present	None.	Artificial Flavour.	1739	
	4·80	0·61	3·10	3·71	1·09	0·045	0·33	"	"		1740	
	6·64	2·66	3·80	6·46	0·18	0·090	0·33	"	"	"	1741	
	4·96	4·07	None	4·07	0·89	0·07	0·180	None	"	.....	1742	
	10·78	5·26	4·2	9·36	1·42	0·240	0·33	Present	"	Artificial Flavour.	1743	
	8·24	4·80	2·07	6·87	0·37	0·452	0·33	None	"	"	1744	
D. J. KEARNEY, INSPECTOR.												
	7·64	4·95	2·58	7·47	0·17	0·105	0·20	None	None	Artificial Flavour.	58636	
	4·22	0·62	3·32	3·94	0·28	0·300	0·26	Present	"	.....	58637	
	7·19	3·38	3·32	6·70	0·42	0·067	0·33	None.	Salicylic Acid.	Artificial Flavour.	58638	
	5·60	0·57	4·54	5·11	0·49	0·262	0·20	Present	None.	.....	58639	
	7·11	45	5·51	5·96	1·15	0·098	0·33	None.	"	.....	58640	
	6·18	2·45	3·05	5·50	0·68	0·172	0·13	"	Salicylic Acid.	.....	58641	
	5·50	1·15	3·12	4·27	1·23	0·667	0·40	"	"	.....	58642	
	5·98	3·65	1·42	5·07	0·91	0·232	0·66	Present	None.	Artificial Flavour.	58643	
	4·63	4·66	0·46	4·46	0·23	0·075	0·07	"	"	.....	58644	
	4·58	2·62	1·72	4·34	0·24	0·065	0·33		"	Artificial Flavour.	58645	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF VALLEYFIELD—				
1913.							
Nov. 12	Ginger Ale....	58661	John McDonald, River Beaudette.	3 bots.	30	C. Robillard & Co., Montreal.	.....
" 12	Ginger Ale....	58662	M. Beauchamp, River Beaudette.	3 " ..	45	1,000 Island Mineral Water Co., Brockville.	.....
" 20	Ginger Ale....	58663	P. J. Pulos, Valleyfield..	3 " ..	25	T. Saniel, Valleyfield.	.....
" 20	Cream Soda ..	58664	N. Boutin, Valleyfield ..	3 " ..	30	" "	.....
" 20	Ginger Beer..	58665	Salaberry Hotel, Valleyfield.	3 " ..	25	" "	.....
" 21	Cream Soda ..	58666	Geo. Greff, Coteau Landing.	3 " ..	30	" "	.....
" 21	Ginger Ale....	58667	J. E. Lalonde, St. Zotique	3 " ..	30	Goulet Bros., Montreal.	.....
" 21	Ginger Ale....	58668	E. Poirier, Coteau Landing.	3 " ..	60	Pilgrim M. W. Co., Brockville.	.....
" 21	Lemon Sour .	58669	O. Besner, Coteau Landing	3 " ..	60	F. N. Pilgrim, Brockville.	.....
" 21	Ginger Ale...	58670	Chas. Jasmin, Coteau Landing.	3 " ..	30	T. Saniel, Valleyfield.	.....
			DISTRICT OF OTTAWA—				
Oct. 3	Ginger Ale....	59201	J. J. McLaughlin, Lyon St., Ottawa	3 bots.	16	Vendors	.....
" 3	Lemon Soda	59202	" " ..	3 " ..	16	"	.....
" 3	Cream Soda .	59203	" " ..	3 " ..	16	"	.....
" 3	Ginger Ale	59204	Morel Bros., Bay St., Ottawa.	3 " ..	25	"	.....
" 3	Champagne Cider.	59205	Eug. Mirault, Rideau St., Ottawa.	3 " ..	16	Vendor	.....
" 3	Iron Tonic....	59206	" " ..	3 " ..	16	"	.....
" 3	Ginger Ale....	59207	" " ..	3 " ..	16	"	.....
" 3	Ginger Ale....	59208	J. R. Shaw, Besserer St., Ottawa.	3 " ..	16	"	.....
" 3	Lemon Sour ..	59209	" " ..	3 " ..	16	"	.....
" 3	Ginger Ale....	59210	A. L. Pinard & Sons, Rideau St., Ottawa.	3 " ..	16	Pilgrim's M. W. Co., Aylmer, P.Q.	.....

SOFT DRINKS.

Inspector's Report. (Is not an expression of Opinion)	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
D. J. KEARNEY, ACTING INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
.....	4·22	1·26	2·90	4·16	0·06	0·120	0·07	None.	None.	.....	58661	
.	4·10	1·78	1·95	3·77	0·33	0·090	0·20	"	"	....	58662	
.	5·94	3·85	1·75	5·60	0·34	0·097	0·40	"	"	.....	58663	
.....	7·94	1·71	5·24	6·95	0·99	0·038	0·13	Present.	"	....	58664	
.....	6·18	3·48	2·45	5·93	0·25	0·09	0·40	"	"	.....	58665	
.....	7·16	0·54	5·90	6·44	0·72	0·045	0·20	None.	"	.....	58666	
.....	4·34	2·75	1·16	3·91	0·43	0·105	0·20	"	"	.....	58667	
.....	3·52	1·74	1·65	3·39	0·13	0·103	0·20	Present.	"	.....	58668	
	3·06	2·83	0·10	2·90	0·16	0·165	0·33	None.	"	.....	58669	
.....	5·70	0·92	3·96	4·88	0·82	0·070	0·33	"	"	.....	58670	
J. A. RICKEY, INSPECTOR.												
.....	9·09	3·09	5·72	8·81	0·28	0·214	0·33	None.	None.	.....	59201	
.....	9·08	2·51	5·92	8·43	0·65	0·182	0·20	"	"	.....	59202	
.	9·41	2·80	5·78	8·58	0·83	0·060	0·26	"	"	.....	59203	
.....	5·16	0·65	4·03	4·68	0·48	0·352	0·20	Present.	"	.....	59204	
.....	4·48	3·98	None.	3·98	0·50	0·180	0·40	None.	"	Artificial flavour.	59205	
.....	4·40	1·80	1·92	3·72	1·08	0·067	0·26	"	"	.....	59206	
.....	2·82	1·84	0·71	2·55	0·27	0·045	0·20	Present.	"	.....	59207	
.....	4·78	0·56	3·50	4·15	0·63	0·337	0·26	"	"	.....	59208	
.....	4·45	1·00	3·26	4·26	0·19	0·168	0·20	None.	"	.....	59209	
.....	4·22	2·46	1·63	4·09	0·13	0·180	0·20	Present.	"	.....	59210	

Date of Collection.	Name of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF KINGSTON—				
1905.							
Sept. 18	Ginger Ale	60046	S. V. Heame, Kingston	3 bots.	10	Vendor	
" 18	Lemon Sour	60047	"	3 "	10	"	
" 18	Soda Water	60048	"	3 "	10	"	
" 18	Ginger Beer	60049	"	3 "	10	"	
" 8	Ginger Ale	60050	J. M. Parland, Kingston	3 "	35	Gerard Co., Montreal.	
" 8	Soda Water	60051	J. Gordon, Kingston	3 "	30	"	
" 8	Ginger Beer	60052	Geo. Thompson, Kingston	3 "	30	Vendor	
" 18	Lemon Sour	60053	"	3 "	45	"	
" 8	Ginger Ale	60054	"	3	30	"	
" 18	Lemon Sour	60055	E. Beaupre, Kingston	3 "	45		
			DISTRICT OF TORONTO—				
Sept. 17	Apple Cider	57474	G. Fanman, 11 Caer Howell st., Toronto.	3 bots.	15	Vendor	
" 17	Cherry Cider	57475	Toronto Soda Water Co., Toronto.	3 "	20	Vendors	
" 17	Sarsaparilla	57476	Dom. Soda Water Mfg. Co., 24 Walton st., Toronto.	3 "	15	"	
" 17	Cream Soda	57477	Chas. Wilson, Ltd., 517 Sherbourne st., Toronto.	3 "	25	"	
" 18	Iron Tonic	57478	Petersons, Ltd., 104 Front st., east, Toronto.	3 "	16	"	
" 18	Lemon Sour	57479	Ont. Soda Water Mfg. Co., 206½ McCaul st., Toronto	3 "	15	"	
" 18	Ginger Ale	57480	The Union Soda Water Mfg. Co., 30 William st., Toronto	3 "	15	"	
" 18	Concentrated Lemonade	57481	Dalton Bros., 11 Front st. east, Toronto	3 "	30	"	
" 19	Jersey Cream	57482	L. A. Kirkland, 36 Dundas st., Toronto.	3 "	35	Vendor	
" 19	Ginger Beer	57483	The Mineral Springs, Ltd., 349 Front st. east, Toronto.	3 "	36	Vendors	

SOFT DRINKS.

Results of Analysis.

Inspector's Report. (Is not an expression of Opinion.)	Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
JAS. HOGAN, INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
	7·65	0·95	5·97	6·92	0·73	0·160	0·40	None	None.	.....	60046	
	6·56	1·49	4·60	6·09	0·47	0·063	0·40	Present.	"	.....	60047	
	4·70	2·25	1·83	4·08	0·62	0·060	0·46	None.	"	.....	60048	
	5·00	2·00	1·80	3·80	1·10	0·300	2·86	"	"	.....	60049	Alcohol in slight excess.
	8·40	1·34	6·24	7·58	0·82	0·210	0·40	Present.	"	.....	60050	
	0·060	.....	.....	.....	.....	.....	.....	.....	.....	Bases present, sodium and calcium.	60051	
	7·00	2·23	4·08	6·31	0·69	0·157	0·20	None.	None.	.....	60052	
	6·65	2·94	3·50	6·44	0·21	0·119	0·40	"	"	.....	60053	
	6·79	1·37	5·00	6·37	0·42	0·232	0·33	"	"	.....	60054	
	6·00	0·95	4·46	5·41	0·59	0·090	0·46	"	"	.....	60055	
H. J. DAGER, INSPECTOR.												
	10·50	4·69	4·19	8·88	1·62	0·105	0·26	None	None.	Artificial flavour.	57474	
	6·92	0·97	5·60	6·57	0·35	0·08	0·120	"	"	.....	57475	
	5·85	2·96	2·15	5·11	0·74	0·210	0·20	"	"	.....	57476	
Quality first.	10·90	4·82	4·77	9·59	1·31	0·255	0·13	"	"	.....	57477	
Genuine flavours.	6·90	3·70	2·43	6·13	0·77	0·128	0·20	"	"	.....	57478	
	4·53	1·53	2·76	4·29	0·24	0·075	0·33	Present.	"	.....	57479	
	4·75	1·15	3·22	4·37	0·38	0·060	0·33	None	"	.....	57480	
A pure lemon product contains no other acid.	48·70	36·58	5·90	42·[illegible]	6·22	*4·09	0·90	"	"	.....	57481	
	7·35	5·00	1·78	6·78	0·57	0·120	0·13	"	"	.....	57482	
Yorksprings	5·92	2·54	3·15	5·69	0·23	0·285	2·62	"	"	.....	57483	Alcohol in slight excess.

* The acid was isolated and iden[illegible]ed as citric acid, and estimated as citric acid (4·09 gms. per 100 cc.)

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF HAMILTON—							
1913.							
Sept. 30	Orange Phosphate.	50870	Sutherlands, Ltd., York St., Hamilton, Ont.	3 bots.	25	Vendors	
" 30	Lemon Sour	50871	" "	3 "	25	"	
" 30	Ginger Ale	50872	" "	3 "	20	"	
" 30	Sarsaparilla	50873	" "	3 "	25	"	
" 30	Lagerine	50874	William Bolus, 412 York St., Hamilton, Ont.	3 "	30	The Kuntz Brewery, Ltd.	
" 30	Ginger Ale	50875	C. Katzemire, 105 John St., Hamilton, Ont.	3 "	35	Cumner & Son, Hamilton.	
" 30	Sarsaparilla	50876	Geo. O. Elder, 121 McGregor St., Hamilton, Ont.	3 "	30	" "	
" 30	Lemon Sour	50877	Louis Econople, 2 Merrick St., Hamilton, Ont.	3 "	20	" "	
" 30	Lemon Sour	50878	E. Fanman, 448 York St., Hamilton, Ont.	3 "	30	Vendor	
" 30	Ginger Ale	50879	" "	3 "	30	"	
DISTRICT OF WINDSOR—							
Oct. 9	Ginger Ale	54416	D. Donaldson, Sarnia	3 bots.	45	Sharp & Kirkpatrick, Sarnia.	
" 9	Soda Water	54417	" "	3 "	30	Gummer & Son, Hamilton.	
" 9	Sanitaria Water.	54418	" "	3 "	40	Sanitaria Ltd., Arnprior, Ont.	
" 9	Ginger Beer	54419	" "	3 "	40	" "	
" 9	Ginger Ale	54420	" "	3 "	40	Goderich M. W. Co., Goderich, Ont.	
" 9	Mineral Water	54423	C. H. Pugh, Sarnia	3 "	35	Saugeen M. W. Co., Southampton.	

SOFT DRINKS.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Sugar.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. J. COSTIGAN, ACTING INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
...	7·48	5·14	2·18	7·32	0·16	0·20	0·166	None.	Salicylic acid.	.....	50870	
.....	8·12	3·52	3·6	7·17	0·95	0·103	0·07	"	None.	.....	50871	
.....	6·31	0·82	5·08	5·90	0·41	0·100	0·26	"	"	.....	50872	
..	8·82	2·01	6·40	8·41	0·41	0·33	0·065	"	Salicylic acid.	.....	50873	
....	46	....	.	....	....	....	1·34	....	.....	Proof spirit 2·34.	50874	
....	1·88	0·60	1·22	1·82	0·08	0·150	0·20	Present.	None.	.....	50875	
.....	....	....	....	....	....	....	....	....	....	.....	*50876	
	1·78	0·38	1·20	1·58	0·20	0·098	0·26	None.	None.	.....	50877	
....	9·96	2·06	6·84	8·90	1·06	0·063	0·07	"	"	.....	50878	
..	9·54	1·68	7·85	9·53	0·01	0·178	0·20	"	"	.....	50879	
JNO. TALBOT, INSPECTOR.												
.....	4·77	1·58	2·61	4·19	0·58	0·270	0·20	None.	None.	.....	54416	
Club Soda	0·020	....	...	....	..	....	....	....	....	Bases present, sodium and calcium.	54417	
The Monarch of Mineral Water.	0·483	....	....	....	....	....	....	....	....	Magnesium and Potassium, sodium and calcium.	54418	
Crested.....	10·00	3·35	5·47	8·82	1·18	0·127	0·33	None.	None.	.....	54419	
Sparkling Dry.	5·57	1·42	3·02	4·44	1·13	0·165	0·26	"	"	.....	54420	
Saugeen Natural Mineral Water.	0·310	....	....	....	....	....	....	....	....	Bases. Ca, Mg., Na. and K. acid radicals. SO_3 and Ce. traces of CO_2.	54423	

*Broken in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF WINDSOR—				
1915.							
Oct. 9	Ginger Ale...	54424	C. H. Pugh, Sarnia.....	3 bots.	35	M. W[illegible] ...	....
" 9	Ginger Ale....	54425	" "	3 " ..	30	Spring[illegible]	...
" 9	Ginger Ale...	54426	" " ...	3 " ..	25	[illegible] Lem[illegible]	
" 9	Soda Water...	54427	" " ...	3 " ..	30	[illegible]ner & [illegible]ons, [illegible]amilton	.....
			[illegible] OF MANITOBA—				
Sept. 26	Ginger Beer..	48946	Pelissier & Sons, Winnipeg	3 b[illegible]	[illegible]	Ven[illegible]	.....
" 26	" Ale	48947	" "	3	"	[illegible]	....
" 27	Crystal Soda..	48948	E. L. Drewerys, Winnipeg	3 "	"	Vend[illegible]	.....
" 27	Ginger Beer..	48949	" "	3 "	"		.....
" 29	Ginger Ale...	48950	Blackwood, Ltd., Winnipeg.	3 "	"	Vendor[illegible]	....
" 29	Ginger Beer..	48951	" "	3 "	"	" ...	.....
" 29	Lemonade...	48952	" "	3 "	"	"	.....
" 29	Cream Soda..	*48953	The American Soda Water Co., 358-360 Flora St., Winnipeg	3 "	15	"	.....
Oct. 27	Ginger Beer .	48954	The Empire Brewing Co., Brandon.	3 "	....	"	.....
" 27	Ginger Ale...	48955	The Brandon Brewing Co., Brandon.	3 "	..	"	...

SOFT DRINKS.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks and Opinion o the Chief Analyst.
Concluded.												
	p.c.	p.c.	p.c.	p.c.	p.c.		p.c.					
Imperial Belfast Ginger Ale.	1·70	0·52	1·12	1·64	0·06	0·102	0·13	Present.	None	.....	54424	
York Springs Dry Ginger Ale.	5·61	1·49	3·56	5·05	0·56	0·075	0·13	None	"	.....	54425	
London Dry Ginger Ale.	7·48	2·85	2·57	5·40	2·08	0·255	0·20	"	"	.....	54426	
Club Soda ..	0·020	...	...	...	...	...	...	...	...	Bases present, sodium and calcium.	54427	

A. C. LARIVIÈRE, INSPECTOR.

Beaver Brand.	4·76	1·00	2·26	3·26	1·50	0·105	0·46	Present.	None.	.....	48946	
"	3·30	1·07	2·15	3·30	0·00	0·105	0·20	"	"	.....	48947	
The Golden Key Brand.	0·140	..	..	..	....		..	..	....	Bases present, sodium & Calcium.	48948	
"	5·70	4·70	0·99	5·60	0·10	0·277	4·71	None.	salicylic acid.	.....	48949	Alcohol above 2 %
.....	8·13	1·20	6·71	7·91	0·22	0·322	0·26	"	None.	.....	48950	
.....	7·96	1·04	6·70	7·74	0·22	0·270	0·33	"	"	.....	48951	
.....	7·12	1·22	5·38	6·60	0·52	0·084	0·07	"	"	.....	48·52	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*48953	
.....	8·13	0·44	5·78	6·22	1·91	0·045	0·40	None.	Salicylic acid.	.....	48954	
.....	10·44	1·38	7·66	9·04	1·40	0·240	0·33	"	None.	.....	48955	

* Broken in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Fournisher
			DISTRICT OF ROCKY MOUNTAINS—				
1913.							
Oct. 3	Ginger Ale...	49963	Thorpe & Co., Nelson, B.C	3 bots.	40	Vendors.	.....
" 3	Iron Brew....	49964	" "	3 "	40	"	.....
" 3	Cream Soda..	49[illegible]	" "	3 "	40	"	.....
" 3	Sarsaparilla		" "	3 "	"	"	.....
" 3	Soda Water.	[illegible]7	" "	3 "	25	"	.....
" 17	Iron Brew....	49971	Jas. Wood, Fernie, B.C..	3 "	30	Fernie Fort Steele By. Co., Fernie, B.C.	.....
" 17	Ginger Ale..	49972	" "	3 "	30	"	.....
" 17	Ginger Beer..	49973	" "	3 "	30	" "	.....
" 17	Strawberry Soda.	49974	" "	3 "	30	" "	.....
" 17	Cream Soda..	49975	" "	3 "	30	" "	.....
			DISTRICT OF VICTORIA—				
Oct. 7	Ginger Ale...	57649	H. A. Lilley, 1417 Douglas St., Victoria, B.C.	3 bots.	30	Thorpe & Co., Ltd. Victoria, B.C.	.....
" 7	" ...	57650	" "	3 "	15	C. Marleys, Victoria, B.C.	.....
" 7	Lime Juice and Soda...	57652	V. Paul, 611 Johnston St. Victoria, B. C.	3 "	15	Kirk & Co., Ltd., Victoria, B C.	.....
" 15	Iron Brew....	57654	John Balma, 812 Yates St., Victoria, B. C.	3 "	15	Regal Mineral Water Co., Victoria, B. C	.....
" 18	Root Beer ...	57665	K. Peppas, Cook and North Park Sts., Victoria, B.C.	3 "	15	Kirk & Co. Ltd., Victoria, B.C.	.....
" 18	Lemonade ...	57666	" "	3 "	15	" "	.....
" 18	Ginger Beer..	57667	" "	3 "	30	" "	.....
" 18	Lemonade....	57668	" "	3 "	15	Royal Mineral Water Co., Victoria, B. C.	.....
" 21	Ginger Ale...	57670	W. Stamatarous, 620 Yates St, Victoria, B.C.	3 "	15	Thorpe & Co., Ltd, Victoria, B.C.	.....
" 21	Raspber[illegible]	57[illegible]1	" "	3 "	15	" "	.....

SOFT DRINKS.

Inspector's Report. (Is not an Expression of Opinion.)	Results of Analysis. Grammes per 100 cc. Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Undetermined Solids.	Fixed Acidity as Tartaric Acid.	Alcohol by Volume.	Saccharin.	Preservatives.	Remarks.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
THOS. PARKER, INSPECTOR.												
	p. c.	p. c.	p. c.	p. c.	p. c.		p. c.					
.....	7·49	2·83	4·40	7·23	0·26	0·157	0·33	None.	None.	.....	49963
.....	9·71	3·92	4·53	8·4[illegible]	1·26	0·150	0·26	"	"	.....	49964
.....	6·52	3·33	2·21	5·84	0·68	0·165	0·07	"	"	.....	49965
.....	7·16	5·00	2·00	7·00	0·16	0·20	0·20	"	"	.....	49966
.....	0·060	.....	.....	.....	.....	..	.....	.....	.....	Bases present, sodium & Calcium.	49967
.....	7·22	1·01	5·76	6·77	0·45	0·157	0·60	None.	None.	.....	49971
.....	9·00	1·78	6·07	7·85	1·15	0·375	0·20	Present.	"	.....	49972
.....	9·42	4·87	3·38	8·25	1·17	0·125	0·20	None.	"	.....	49973
.....	6·98	1·91	4·91	6·82	0·16	0·060	0·20	"	"	.....	49974
.....	7·13	1·01	5·76	6·77	0·36	0·038	0·33	"	"	.....	49975
D. O'SULLIVAN, INSPECTOR.												
Ye. old fashioned Ginger Ale.	6·58	2·59	2·33	4·92	1·66	0·315	1·13	None.	None.	.....	57649
.....	5·86	3·75	1·75	5·50	0·36	0·225	0·33	Present	"	.....	57650
.....	5·80	4·66	0·40	5·06	0·74	0·20	0·045	None	"	.....	57652
.....	5·46	1·88	3·20	5·08	0·38	0·202	0·07	"	"	.....	57654
.....	5·93	1·27	[illegible]	[illegible]	0·93	0·20	0·045	"	"	.....	57665
.....	4·78	2·46	[illegible]	[illegible]	1·07	0·203	0·33	"	"	.....	57666
Old English	3·41	2·12	0·4[illegible]	[illegible]	0·83	0·352	0·86	"	"	.....	57667
.....	5·18	1·41	3·70	5·11	0·07	0·112	0·46	Present	"	.....	57668
.....	3·70	2·05	1·49	3·54	0·16	0·210	0·20	None.	"	.....	57670
.....	3·75	2·10	1·58	3·68	0·07	0·150	0·20	"	"	Artificial Flavour.	57671